ABSTRACT

This invention provides a crosslinked polymer produced by polymerizing one or more crosslinking monomers and bonding, preferably covalently bonding, a phthalocyanine skeleton to the resultant polymer. The degree of crosslinking is 1% or higher. When this crosslinked polymer is used as an adsorbent, a polycyclic organic material present as a mixture in a solution can be selectively adsorbed, desorbed, or separated. The crosslinked polymer having a phthalocyanine bonded thereto is excellent not only in the ability to adsorb polycyclic organic materials, but in the ability to desorb the adsorbed polycyclic organic materials. Accordingly, the crosslinked polymer is particularly useful for selective adsorption, desorption/concentration, or separation of polycyclic organic materials, e.g., mutagens, present in a very small amount, for example, in environments, foods, table luxuries, biological samples and can be widely utilized for the qualitative determination, quantitative determination, or removal of mutagens.